SEQUENCE LISTING

<110> Recipon, Herve
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Chen, Sei-Yu
Liu, Chenghua
Turner, Leah

<120> Compositions and Methods Relating to Lung Specific Genes and Proteins

<130> DEX-0245

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<150> 60/243,461
<151> 2000-10-26

<150> 60/252,055
<151> 2000-11-20

<150> 60/252,496
<151> 2000-11-22

<160> 142

<170> PatentIn Ver. 2.1

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<211> 233
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (165)
<223> a, c, g or t

<400> 14
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gccagtctca attgttacat cagcctgagg aaactcatgc gaganatgcc agaaaaagaa 180
gacagcaaca aagaagataa aagaaagact gacaaaagca ttgaatttct ggt 233

<210> 15
<211> 150
<212> DNA
<213> Homo sapiens

<400> 15
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gtatctgaag aagaaaaaag aagaggcaca 150

<210> 16
<211> 263
<212> DNA
<213> Homo sapiens

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<210> 17
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (437)
<223> a, c, g or t

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<210> 18
<211> 511
<212> DNA
<213> Homo sapiens

<400> 18
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ggaaatcatc catccttcca gaatattctg c 511

<210> 19
<211> 61
<212> DNA
<213> Homo sapiens

<400> 19
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g 61

<210> 20
<211> 198
<212> DNA
<213> Homo sapiens

<400> 20
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ttactcagtt tgaatgac 198

<210> 21
<211> 470
<212> DNA
<213> Homo sapiens

<400> 21
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<211> 270
<212> DNA
<213> Homo sapiens

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<210> 23

<211> 1155
<212> DNA
<213> Homo sapiens

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<210> 24
<211> 1311
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (1276)
<223> a, c, g or t

<220>
<221> unsure
<222> (1278)..(1297)
<223> a, c, g or t

<400> 24
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<210> 25
<211> 2593
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (378)..(442)
<223> a, c, g or t

<400> 25
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caaatgaact aaa 2593

<210> 26
<211> 594
<212> DNA
<213> Homo sapiens

<400> 26
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<210> 27
<211> 733

<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (357)..(454)
<223> a, c, g or t

<220>
<221> unsure
<222> (541)..(653)
<223> a, c, g or t

<400> 27
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnncatcacc 660
aacacttgtc caaactaaaa aattctaggc caggcgctat gcctgtagtc ccagcaattt 720
gggaggcaag gtg 733

<210> 28
<211> 553
<212> DNA
<213> Homo sapiens

<400> 28
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atattgcagt ctagaaggaa caacacggtg aattgtctac tgcagaacac ttcactctgt 120
ctcgattact acatggtgaa ttgaagttcc agtagagagg gagttgagct gatactgagg 180
agataaatac ccatcactgt atacatctac ttcttggaat ttgcaaggga accagtcaac 240
agatttttca agccttataa gtttatctgc ctgagaagtt caccagctac ataacatcct 300
ggactctgga gcccaagaga tgtgtagttt ccattttgga gccattttct ttgataaata 360
agtagtgagg ctgccattct tgtcaaagtt gaggaccaca accttactca tgaaactgaa 420
agattgtttg ttatgaggag ttctgtttga gccatacaag caatatatcc tttttaaaga 480
aatgtatccg gaatcttagg tgttcattgc tccaagccat gtgcagaata aaaagaaaac 540
aaaaaacaaa aaa 553

<210> 29

<211> 589
<212> DNA
<213> Homo sapiens

<400> 29
gcacgaggga ggaactagcc caccaagcag gtttaaaggg agtgtcggac acaaaaatga 60
catgccccat attgcagtct agaaggaaca acacggtgaa ttgtctactg cagaacactt 120
cactctgtct cgattactac atggtgaatt gaagttccag tagagaggga gttgagctga 180
tactgaggag ataaataccc atcactgtat acatctactt cttggaattt gcaagggaac 240
cagtcaacag atttttcaag ccttataagt ttatctgcct gagaagttca ccagctacat 300
aacatcctgg actctggagc ccaagagatg tgtagtttcc attttggagc cattttcttt 360
gataaataag tagtgaggct gccattcttg tcaaagttga ggaccacaac cttactcatg 420
aaactgaaag attgtttgtt atgaggagtt ctgtttgagc catacaagca atatatcctt 480
tttaaagaaa tgtatccgga atcttaggtg ttcattgctc caagccatgt gcagaataaa 540
aagaaaacaa aaaacaaaaa aaaaaaaaaa aaaaaaaaaa ttggcggtc 589

<210> 30
<211> 487
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (305)..(374)
<223> a, c, g or t

<400> 30
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taagactatg tttgtatatg acacatcact tttatcttgt agctcccaag atgctctgtg 180
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gtttgttaag cttcttcatg tttacattat ttttcttact gagggatttt tcaggtatta 300
tttcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnctgatt ttctgtagtc tgtgttcctg tttcactcat tgaatattca 420
attcttttac tcaacttctt taaaattaac tgtgtacact ctttcctatg gtttccttct 480
gaaaatt 487

<210> 31
<211> 330
<212> DNA
<213> Homo sapiens

<400> 31
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acctaattat gtttctggat tgtggagagg acagaatcaa gtatagtaag ggtgggacag 120
gtgagtctag gggaaaagga tgatgatgag atttcatgtc gtcgtctgca tccttacaaa 180

ggtctcacag tagcctttct aagggaataa ttttgaaacc attgcaactg attgaagcac 240
ttatctattt tccaagaggg ttaatagtaa gggtggaggt caaattactt tgagcttgag 300
ccaagaggaa taaatatagc atggaaccca 330

<210> 32
<211> 574
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (523)
<223> a, c, g or t

<400> 32
gagcaagctg gggaaggcag ttcaggcagg gggacttaca tgtgcaaagg caaagtggta 60
agacgggctg ctgcagaacc aggagcaagc atgagagctg gaaggaggta ctgccttcct 120
ctccctgcca gcaacacctg tgggtcccac tgagtgcctg gaagccctgg atggaggaca 180
agggcttgca ttcaggacaa gcctgggaaa gaaattttga tctgagaaat ccaggctgca 240
tttatccagc taatgtggct gaactgaacc cttaattggg tcaggttgag cttcccggct 300
cagcaggaat gcctgagaac aggaaagaat ttgatctgag ggtctgaccc tcaccccctgc 360
attttacagc ctccccttcc agcattcttt tattactatt gctgttgtca ttattatgat 420
gccttctgga gcctcctttc attccaacag ttacatcctc ttatttgccc tattggcaat 480
tagtcttctt tggacatgct tggtagtttt ttatgcgcta atntttctac catagcttga 540
gtgggtttta ttcattccat tggccaggca gtag 574

<210> 33
<211> 350
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (160)
<223> a, c, g or t

<220>
<221> unsure
<222> (164)
<223> a, c, g or t

<400> 33
gcaaagcatc ttcagatgtc tctgcccttа aagcacacgc gttctgctct gcgacgaagc 60
aggacaagga ggacagagac ctgcacctcc ggaggcccgc acctacgaag atagcgggct 120
cgggaccttc agtggaccgg cagggttcca gaggcccgcn cgcngccgcc ccgccctcat 180
tgctgagcct gccaggtaag cagccccagc gccgtgcccg cgcgacctct actccttccg 240

ggagggtcgc gctcacgtct gaagtgggag caatgcaccg ggacagggac acctcctagg 300
ccatgcctgt tccagtccag ttctgcctga aagtccggct ggctcatcac 350

<210> 34
<211> 543
<212> DNA
<213> Homo sapiens

<400> 34
cactgtgcat gaacgcttgt gtggggctac ccatgattat cagtcctatt aacttatctt 60
gaacgccttc acttccagat ttctaagtgg ggctcaggaa ttataataga tgtccacaga 120
ctgcatggtc ttctctctcc acaacacgca gacactatta gaagtaaaag ccacgtgtcc 180
tcaagagggc aaggcaaagc atcttcagat gtctctgccc ttaaagcaca cgcgttctgc 240
tctgcgacga agcaggacaa ggaggacagg gacctgcacc tccggaggcc cgcacctacg 300
aagatagcgg gctcgggacc ttcggtggac cggcagggtt ccagaggccc gcgcgccgcc 360
gccccgccct cattgctgag cctgccaggt aagcagcccc agcgccgtgc ccgcgcgacc 420
tctactcctt ccgggagggt cgcgctcacg tctgaagtgg gagcaatgca ccgggacagg 480
gacacctcct aggccatgcc tgttccagtc cagttctgcc tgaaagtccg gctggctcat 540
cac 543

<210> 35
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (180)..(202)
<223> a, c, g or t

<400> 35
cagagcaaga ctctgtttca aaaacaataa acaaacaccc agctctctct caaagaagta 60
aggaagcaaa gcaggctgat ggagacaggc ttctgggaga cccagctgct caggtctggg 120
ctctgcctgc tgtatattca cttctcctag gttctctctg gcctgcctcc catctcagcn 180
nnnnnnnnnn nnnnnnnnnn nnggctaatc tttgataaat tcccacataa tctgcaatga 240
acagagaaac tctgtaggaa tgacttggtg ctaccccacc acagtccaca tcttgggaca 300
gccgctcagc ctggagcccg tactagaagg aagaatgtcg atgttaaatc tctccctcat 360
tcaagacaat gtggcctcaa tattagatgc cttttcacct ttatttttctg aatgtctgtt 420
tacatctgag ttcactcgta gaaaaagtct gggtgagaga gtaggtcggg gtccccttgg 480
ccctgagaac agctggccag gcggagccca cctctggttt ttctggcttt gtgacagagt 540
gaccactagg gggtgaca 558

<210> 36
<211> 739
<212> DNA

<213> Homo sapiens

<220>
<221> unsure
<222> (590)
<223> a, c, g or t

<220>
<221> unsure
<222> (595)
<223> a, c, g or t

<220>
<221> unsure
<222> (601)
<223> a, c, g or t

<220>
<221> unsure
<222> (603)
<223> a, c, g or t

<220>
<221> unsure
<222> (610)
<223> a, c, g or t

<220>
<221> unsure
<222> (685)
<223> a, c, g or t

<220>
<221> unsure
<222> (691)
<223> a, c, g or t

<400> 36
gtgaggggtg ccctgcagtg gatctggaga taccattagc atggtctccc gcctcctgca 60
gagacctccg tggcaagtcg ttggcccggt gacagaaagg cctgtactgg attctggttt 120
gccttgagca tgctgccaga gccctgaaat atagctgtgt attgttaagt ctctttgcag 180
tctgtgttct ctcgtgataa cttcctattg ccttcttgtc tctttaaaaa tcacatattg 240
agcttttcat gcacttgcct cttattttcc caagctcttc cagttcatac ctcctcatcc 300
ccccaggtct atcagtgctt cggggtttgg aacctctggg gtacactgat ggtcacccaa 360
catgggaaga acaccatgtc tctggggacc ttggatctcc ctgctctgtt ttcctttctg 420
tgggctccca gctcctagag ctcaacatgc ctttatcctt ttccctcctc cctcagatgg 480
aaacagttct ggcaaaaata tttaaaatag acattataga acttaaaggt gacatagttc 540
aggggtagtt gacacattta tctcataaca aagaaagaat tcgtagcatn aaaancagat 600

ncnacagatn ctctttttgg aagcgactgt cttcccagaa ccctaaaatc atgcagtggt 660
agcttttagg gagtgagaca aggtnccttt ngccagctgg cccccacgga gcaagaaatg 720
gcatcttgtc tgatggggg 739

<210> 37
<211> 821
<212> DNA
<213> Homo sapiens

<400> 37
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gagacctccg tggcaagtcg ttggcccggt gacagaaagg cctgtactgg attctggttt 120
gccttgagca tgctgccaga gccctgaaat atagctgtgt attgttaagt ctctttgcag 180
tctgtgttct ctcgtgataa cttcctattg ccttcttgtc tctttaaaaa tcacatattg 240
agcttttcat gcacttgcct cttattttcc caagctcttc cagttcatac ctcctcatcc 300
ccccaggtct atcagtgctt cggggtttgg aacctctggg gtacactgat ggtcacccaa 360
catgggaaga acaccatgtc tctggggacc ttggatctcc ctgctctgtt ttcctttctg 420
tgggctccca gctcctagag ctcaacatgc ctttatcctt ttccctcctc cctcagatgg 480
aaacagttct ggcaaaaata tttaaaatag acattataga acttaaaggt gacatagttc 540
aggggtagtt gacacattta tctcataaca aagaaagaat tcgtagcatc aaaaccagat 600
gccacagatt ctctttttgg aagcgactgt cttcccagaa ccctaaaatc atgcagtggt 660
agcttttagg gagtgagaca aggtgccttt ggccagctgg cccccacgga gcaagaaatg 720
gccatcttgt ctgatggggg ccacccgggc cacaccccgt tactgcttct gacaggatca 780
gccctcgctg gaccttggga cccttatttt tgtcctactc c 821

<210> 38
<211> 588
<212> DNA
<213> Homo sapiens

<400> 38
ggcttttgaa acatttcata caaattaact tgtgtttcag tttcctatct tgaaacaaga 60
aggcacccac atttcccccc atctcttcat tcttacagct tgaactgtta catttaggca 120
catagatggg ggggaaaaga ttataaagaa attgactaaa aacttggaaa ttatttttac 180
ataaaattgt catatttgat tttgcacgtt acaaatttga aaattaaaat agcattagga 240
atagtttatg tttagaaata gatgctttat accaaatagc ttgaagtacc ttggaatagt 300
gatcttacag aatgcagggt tcacatttgc ccctgtatat ttaaatatat tttcccagga 360
tttacacact tttccatata tttaagtaga ggaatataac aataactaca agctacttca 420
tatatctcac atctctactg ccaaagtttg tctaccagcc ttttccagct cacgtcattt 480
taatcatacc tcatttcttt tactttattt tgtttgcttt caatatgaaa aaggttttat 540
cctatatgga gaaaacagac agaatgtcgt acattagctc taagtagt 588

<210> 39
<211> 580
<212> DNA

<213> Homo sapiens

<400> 39
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atgtgtgtgc tagtgtgata caaaggaaga ttttacaccc caaacagtga aataatttta 120
aaaacaaaac gcacatagaa cacctacatg gtgttatttt cttcaaatca gtgtaatata 180
cacaggctca gcagtctaga catcaacatt taaactaatt taaatgtatt aatcccttct 240
tttttcatgc aattgcaatt tccagatatt taaagatgtg agcattttta cacatttgct 300
gataaaattg gaatcatttc attttaattg atacctctaa aaatcatctc ttcagcccga 360
ttgtattttc cagacctgac ctttgagtca gaagagagcc aatttgcaaa taaaggggtg 420
tctcatggct gcctgctgag ggactgttca taagcctttt tgtgagggtg attcaatagc 480
tccattctgg tacagtgagt cctgcccgtt ttagccattt gcctataact gttttactgt 540
tctgtgaata atttttattt atcttaatat tattttcatg 580

<210> 40
<211> 617
<212> DNA
<213> Homo sapiens

<400> 40
aagacttata cattataagg tcagctgttt taccttacta tttttcctga tcctcatgga 60
atgtgtgtgc tagtgtgata caaaggaaga ttttacaccc caaacagtga aataatttta 120
aaaacaaaac gcacatagaa cacctacatg gtgttatttt cttcaaatca gtgtaatata 180
cacaggctca gcagtctaga catcaacatt taaactaatt taaatgtatt aatcccttct 240
tttttcatgc aattgcaatt tccagatatt taaagatgtg agcattttta cacatttgct 300
gataaaattg gaatcatttc attttaattg atacctctaa aaatcatctc ttcagcccga 360
ttgtattttc cagacctgac ctttgagtca gaagagagcc aatttgcaaa taaaggggtg 420
tctcatggct gcctgctgag ggactgttca taagcctttt tgtgagggtg attcaatagc 480
tccattctgg tacagtgagt cctgcccgtt ttagccattt gcctataact gttttactgt 540
tctgtgaata atttttattt atcttaatat tattttcatg cataataact ataataaaca 600
accctgtcag tgaaaaa 617

<210> 41
<211> 234
<212> DNA
<213> Homo sapiens

<400> 41
atacatacca aaccaaacaa tgcctatggt caatttgtgt actttgggtc tccatttttct 60
tgtttggttc aacattacgt catctttata aaataaattg agagaaaaaa tttataagaa 120
agacttaagt atgttccaag aaaatatgcc atttacccta gaggttgaaa tataatcaat 180
tattcaaaac ttgcatgcta tatatacaag acactgccag actctggaga ttta 234

<210> 42
<211> 147

<212> DNA
<213> Homo sapiens

<400> 42
ggaagtggtg tagacactcg agaagtgaaa tgcagatatg tctgccattc agactgatag 60
gttcctttcc tctgtggaaa tgaggttatt ttagatcatt gttgaggtag atgcaggaat 120
ctgtcccctg gctttttgt ttgtttt 147

<210> 43
<211> 609
<212> DNA
<213> Homo sapiens

<400> 43
atgttgtcct ctgcacgtgg aggagcagag gagtcagaga gggcagagcc gcctctgagg 60
tgggctttcc ttctcttggg cctaggcact gtggttggcg tggacgagag cactgctttc 120
tcatggcctg tgtgtgacat gtgtggcaac gggagattgg aacagaggcc ggaagacaga 180
ggcgcctttt cctgtgggga ctgctcccgg gtggtcacat ctcctgttct caagaggcac 240
ctgcaggtct tcctggactg ccgctcaaga ccgcagtgca gagtgaaggt caagctgttg 300
cagcgcagca tttcctccct gctgaggttt gccgccggtg aagatggggt aagtgcaggg 360
ggcccagccc agggggccgc acactcagta gcctgcatga gcaactcatc cccagaggaa 420
gcccccactc ccaaatgtgt tctattacaa cccatcccac taggaagtgg tgtagacact 480
cgagaagtga aatgcagata tgtctgccat tcagactgat aggttccttt cctctgtgga 540
aatgaggtta ttttagatca ttgttgaggt agatgcagga atctgtcccc tggctttttt 600
gtttgtttt 609

<210> 44
<211> 538
<212> DNA
<213> Homo sapiens

<400> 44
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gtggcatggt ggctctcgga gcttccacac accatctcac gtcagctcgc tttgttcttg 120
aggaaggagg gttcttgagg gatgggggct tgctcggtaa agctaaagga tgtatagctg 180
cggagaggtt tgaacctcag tttggtggcc acgtcctgtg cccagccccg cccagcctgg 240
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tgcacagggg cccagcattg gctgaggagg ctgtggaggg gagggagcag ggcaggtgcc 480
gtgcaaggct ttgagactca ggtcaggcct ccaggactgc gttttgcaga tgaaccca 538

<210> 45
<211> 1348
<212> DNA

<213> Homo sapiens

<400> 45
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gtggcatggt ggctctcgga gcttccacac accatctcac gtcagctcgc tttgttcttg 120
aggaaggagg gttcttgagg gatgggggct tgctcggtaa agctaaagga tgtatagctg 180
cggagaggtt tgaacctcag tttggtggcc acgtcctgtg cccagccccg cccagcctgg 240
ggaggaggaa caggctcctg gtgaaatggg agatagggtt tccaggtgcc ccccttcggc 300
cttgattggt tacaaattca gggtcaaagg gcacaaagca gggaggtcaa tctgcatggg 360
tgtcagccag aggggctcca cctcaaagcc tccaccggtg tcgccaaaca caagctgctc 420
tgcacagggg cccagcattg gctgaggagg ctgtggaggg gagggagcag ggcaggtgcc 480
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cctgtgacta cactaagtaa caggatgctt ggggttacct tgcagtagta cagcatacgc 600
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ccacatctat ctggggactc agagtacaac cccagcagca cccccaggac ctgtgtccat 780
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gttccccaaa taagaattgg gccaaaaaat tcatcaagaa tctaatagca gacagattcc 1200
aaacccagtg cgctgacccc agaacagctt tcagtaggaa atgagcagat caggaatgaa 1260
agagacaata aaggaactga gctctggatt acttaagagg aggaggaaaa cctgttcaga 1320
ggcaaacaaa aggaagtaaa ataatgtg 1348

<210> 46
<211> 237
<212> DNA
<213> Homo sapiens

<400> 46
acccccaact tcctagccct tccctgctgt cctcattttc accatagcag tcctttgccc 60
ttcccctagg taccccctgtg tattcctggt taacctcttt ctgaccaccg acctctgccc 120
acccaagccc ttgaacaata tttttcttga tctttttacc tgctcatgtt tccttatttt 180
gtctgcttat gtggccattt ggcttttctg tggcatagat gaagaaggtg atgactg 237

<210> 47
<211> 503
<212> DNA
<213> Homo sapiens

<400> 47
ccacgcttgg cagactttat ttcttaaaga ttgccgtctt actcagcatc ttggagaact 60
cacaaataaa tgtccctgag tttcgagaca agccagccat taaaatcttt taggggatc 120

cagagaagat gagttaaatt ggaatggact tgaaaacact gatttagttg gatttatgga 180
tcacagtcat gaaaaggtaa agataccaac ttgttttgtg aatttaatct ttattcctta 240
ctttttgcc cctactgttt gtaattccta ctttataatg aaatccttct tgtgacttat 300
agaaattaac tggggaaaat gtttttctgt tctccatttc ctttaagttt gtttttagat 360
acactgcatt gcaagtatgt gtggtacagt aaaatgttgc taattgtatc tgcgctgata 420
acatgccatt tgctgtaggt cagtttccta ccccctcccc caactattcc tagccagtgg 480
tagcatgctt cttacttcca aat 503

<210> 48
<211> 656
<212> DNA
<213> Homo sapiens

<400> 48
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aataaatgtc cctgagtttc gagacaagcc agccattaaa atcttttagg gggatccaga 120
gaagatgagt taaattggaa tggacttgaa aacactgatt tagttggatt tatggatcac 180
agtcatgaaa aggtaaagat accaacttgt tttgtgaatt taatctttat tccttacttt 240
tttgccccta ctgtttgtaa ttcctacttt ataatgaaat ccttcttgtg acttatagaa 300
attaactggg gaaaatgttt ttctgttctc catttccttt aagtttgttt ttagatacac 360
tgcattgcaa gtatgtgtgg tacagtaaaa tgttgctaat tgtatctgcg ctgataacat 420
gccatttgct gtaggtcagt ttcctacccc ctcccccaac tattcctagc cagtggtagc 480
atgcttctta cttccaaata tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 540
cgcctgtgtg tatcaacaat gtgatcctaa aataaaagaa tgacatatat ttgacattat 600
ttacatacta aatatgggag cacataatca attacagaat aaaatccaat tttgca 656

<210> 49
<211> 362
<212> DNA
<213> Homo sapiens

<400> 49
ataactagga ttttattttg ggtgaaacat aaatataaaa cctgtttctt aatactaatc 60
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<211> 3876
<212> DNA
<213> Homo sapiens

<220>
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<222> (3450)
<223> a, c, g or t

<400> 50
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<210> 51
<211> 492
<212> DNA
<213> Homo sapiens

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<210> 52
<211> 1151
<212> DNA
<213> Homo sapiens

<400> 52

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<210> 53
<211> 623
<212> DNA
<213> Homo sapiens

<400> 53
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<210> 54
<211> 1848
<212> DNA
<213> Homo sapiens

<400> 54
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<210> 55
<211> 434
<212> DNA
<213> Homo sapiens

<400> 55
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<210> 56
<211> 493
<212> DNA
<213> Homo sapiens

<400> 56
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tatgtggaat tgt 493

<210> 57
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (288)..(308)
<223> a, c, g or t

<400> 57
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<210> 58
<211> 894
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (791)
<223> a, c, g or t

<400> 58
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<210> 59
<211> 1587
<212> DNA
<213> Homo sapiens

<400> 59
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<211> 704
<212> DNA
<213> Homo sapiens

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<210> 61
<211> 142
<212> DNA
<213> Homo sapiens

<400> 61
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accctggtgc gctcgcgtaa tg 142

<210> 62
<211> 641
<212> DNA
<213> Homo sapiens

<400> 62
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actaccgggc atggggaaca gacagtgaga ccaagacgtg gagggggggg aataaggggc 120
gtagagcggg taggggttga agagttgcga cggaccagct aaaaggggca gcgccggaag 180
gcgcagtaca aaatttaata agaaataggg acaaaacagg acaactaggg aacataaaca 240
cgaaacgggg cgaagataat ggggggaggt ggccaaacga gaaggtagac gaatggtgaa 300
aggggaggtg cagaacaaat gccccgggcg gaccggggca gcgggcaagt acaaagggcg 360

gtggtgggga aggcgaaaaa taaggcgggg ccatagtcag catagatagc gtagtaagcg 420
gagtaaaaga gatttagtat gaataattaa tagaaaaggc ctggacgcag taactaggtg 480
tatgaggcac aaaggcgggg cagcatgtaa gcctgaccag agaccgccgg gggagatagc 540
ccacgatagg ctttggggtg cactgaagga gagtagacat tgcgggggggc cggcgggaga 600
aattgctaca gtatactgta gcaagcgatg agataccgga c 641

<210> 63
<211> 570
<212> DNA
<213> Homo sapiens

<400> 63
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cggaacaaac cgccccggaa gggggtaacc ccgcctgcac gcactgcagg ctcagctaca 180
cgggacggcc ccgcggcgac caccatttgc ctactgcctt gaccccgcca aaataggtgc 240
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gccgcgatcg cgctgtccac gggttttcat atagtagggg gagggggggg gtaagcttcc 420
ctctccacct ccctcttaca gcatttgcta gtatcccgcc cacgcctgcc gcggacctca 480
cggtttcccg cctccgctaa ctgcacgctt cgcgatgtct tgtactgtat tgcttaccct 540
tgtgcgctcg cggattgata tgggggggggg 570

<210> 64
<211> 643
<212> DNA
<213> Homo sapiens

<400> 64
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cggaacaaac cgccccggaa gggggtaacc ccgcctgcac gcactgcagg ctcagctaca 180
cgggacggcc ccgcggcgac caccatttgc ctactgcctt gaccccgcca aaataggtgc 240
gttgcccgcc cggcggacgc gccgggggggc tagggctata ttttgggccg ccttgccttt 300
ccacctatgt cttacatgat ttgctgtaaa cccgccttcg ccttccaccg atgtggccgt 360
gccgcgatcg cgctgtccac gggttttcat atagtagggg gagggggggg gtaagcttcc 420
ctctccacct ccctcttaca gcatttgcta gtatcccgcc cacgcctgcc gcggacctca 480
cggtttcccg cctccgctaa ctgcacgcta cgcgaacgct tgtactgaat tgcttaccct 540
cgtgcgctgg catgtggggc tggaggagat ccaagccatt gacattggtg ttgggaaccc 600
aaaggctggc tcctcttcct tcctggacgc tgggttgctc tag 643

<210> 65
<211> 804
<212> DNA
<213> Homo sapiens

<400> 65
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accgactgtt gaacctatta caaacgggac gctgcctgta ttaaccgctg gggctttgta 120
cgtctattgt tcgggcgcat gtaccggtac cgccgtttca taataccta cccacacgtt 180
ggctgccgat acccttgca ttttgacacg cgctgctgcg cctccataat ggtgattact 240
tgcttttgtg tgctagtgct aaataactat ttaatgcttt ttgcttttat ttttgatatt 300
tgtttacagt tatgatttga cgcgtttacc acttacctat aaatcatgtt taaccgtggc 360
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acatggtgcc cctcacgcca tttgccggca ccttggggct agcgtgcgat tttcaattac 480
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ataatttaaa ttttgctgat gtattttggc cggcgcttgg acaaaattgt ttgaggatta 720
aatacttcgt tttagcaatt tatactatgc ttggctaaca agatgctaaa tgcccttgac 780
caatgtgaag cggaggggcc agca 804

<210> 66
<211> 631
<212> DNA
<213> Homo sapiens

<400> 66
cacgtgtaga gcggcgctag acgtcatctg actgtctcag tcaggctatc cggaatccta 60
tcgccaaggc ccaagcgcgg gatttaagaa atgacataac gtatagggga agatgggcag 120
taaaattaac aggacaccga aataataaga ctccgagact gggggtaatg caagagtcag 180
caggactagc tgccaggaaa agcagcgtga aaagaggtgg tacatgtaaa caaatcttgt 240
gacagcgcaa acaatgctag aaaattgcga gatattttgt ggggccgcct gggcccagtt 300
gctaaaatgg acgctgaagt tagaagtaac ctgggcgacg acggcgtata gaaggagcaa 360
tgaaacgagg gacaacgtga ggttggtgga gcgcgaagcc ggcaagcaaa aggcgggatg 420
gacctgagag cgtgaagttt atgaccgcaa acagaatagt agtaacggta cgaacagcta 480
gaggggctga gcaagcgagc tacggagcaa gcgatgaggc tgggcggcct tgcggtgtga 540
tataagatgg cgggatggac ggagcaaaga tatgaaaaag ggctggtaaa gattaataaa 600
ggaattaatt aaataatagc actcgggtag t 631

<210> 67
<211> 604
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (490)
<223> a, c, g or t

<220>

<221> unsure
<222> (515)
<223> a, c, g or t

<220>
<221> unsure
<222> (524)
<223> a, c, g or t

<400> 67
cgacgaatcc acgtaagagc ggcgctagac gtcatctgac tgtctcagtc agctatccgg 60
aatcctatcg cgggggggag ggggaggggg tagaacaacg taaacaaaaa tgaaagcaaa 120
accggggcgt agaaactggg gcagtgcgca agataatgct ggaagtaatg tggtaagcga 180
accagttggc gcacgtgccg cgataacata accggcgatg aagaagcgac ttggtggccg 240
cgtttgtaca cgaaatacca ggttagaaac cccgggggcg ttaggacgtt aggagactgg 300
aaatacatta tcacataaaa atataggtgt gtgcatgacc cacgggtgaa atgcgtgtta 360
tgcctgctgt aagaccaaat aggaacacgc ggtagtttaa ttgatgggtg ggggccctgg 420
cccacccgct tttcctagta accaagggtg aaaaaagtag tgggaatctt tgcggggcca 480
cgggagaaan caagaggggt acagaaggct gaccntaggc aganagaagc cagagacgat 540
acacagcaga caattgatgc gggagaaata agtagcacta aaggctattg cgcagggtgc 600
atga 604

<210> 68
<211> 579
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (507)
<223> a, c, g or t

<220>
<221> unsure
<222> (510)
<223> a, c, g or t

<400> 68
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tcgctaccgt acttttgcat aaacgtacca agtttattat atactgccag ccaaaaatac 120
cgacgagccg tgcgacgacc gaatattgtt gttgaaaatt aacagtataa tatattgttt 180
aataagccct accgccgacc tgaaagatat agcgacgtac aatttggccg cgacttgtat 240
actatactta agtacaaccc ggccgcgcgc cggtttgtat gtataagatg ctaagcgcac 300
aatggtacga ttaatttttgt tgataatgcg atacaattat accgctaacg tacccccccac 360
cccgacctgg cattgaccac acacaagccc gtttgccctg aacccccggc ccgcctcggc 420
cttacgccaa aattgataat gaatataaaa caagaagccg cggccacgcc tgacccttgg 480
atttgaatta cttaattgca cttttgntgn ttaatacgat aagccccaac cgacccatga 540

tacattaacc atgcggaaaa tatgtttagc agtattagt 579

<210> 69
<211> 621
<212> DNA
<213> Homo sapiens

<400> 69
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gcgctggcgc tgggtgggaa tggggctagc tgcggcctgg cgggaggcga tgcgctgcgg 120
tacggccgcg agcccgtgac gggggattaa tgggggggat ggacggattg cccctaccaa 180
aaaaaacggg gcgatggtgg ggagcgagcg tacttgcgta ggacgtcggc ggcggcggcg 240
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ccaccacctt tacgagtcgc ccggctgcaa cgaacagctt ggtctgccgc gtatatctac 360
acaccagata cgcctacctg ggctaaagcg tgacattaga cgatgtgggt tgcgccgacg 420
gcagcggtag ctgtctgatg gcggactacc acctggccat gttgaccgac cctcgcatgg 480
tccccccttat ggttatattg cgcttgaacc ccgttgtaat agaggcgcgg gtggcggtta 540
cttgttacgc cggtgcgacg aaatgcttta attacgtgat ggccactacg tatatgtacg 600
tcgttgacgg aatgaccatg a 621

<210> 70
<211> 507
<212> DNA
<213> Homo sapiens

<400> 70
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gctgctgatc atcccgttgc gtatcatatg ccttgcaact gcttaatatg cttgggtctt 120
cgttggccgg ggtatgtagt tgacgcggaa ctgcacgaaa ctaaaactta ttagcctgat 180
gttacacttg agttgcaagg gtgcctacga ataccggcaa tacgccgggg ctgctaaagt 240
ggtgggagtt tgcgactaca ccttgtgacc tagggtttac gtttgatatg cggctgcgga 300
tattagcttt tgtgcggact acacattata cggcgggttg gacgtaaagg gtggcgcgtt 360
taattggcag gcattggtcg ggcttgacgt tgtgaccgac gagacctacg acggcgacga 420
cgtcgttgac accgtgcttg ccgtattgaa cgtatcggtc gtatacgacg acagcgacgt 480
gtacgacgaa tatgttgcat acgacgc 507

<210> 71
<211> 683
<212> DNA
<213> Homo sapiens

<400> 71
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caacgccgtt cctactgccg cgggctactg cgtgttgatc gcctttactg cggccttccc 180

gatgggcata cccaatatgt cccgcgtggc gaccgcgtcc ttctccttgt cactagtctt 240
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tgcgcttact gtcgtcatta caatcgctac gctggcgtcc attactcttg tgctcccgct 360
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cgtccgctac tgtccatata cgaggacggc ttatcgcggc gtcccgcatt tcctggtagt 480
gcccgctata attaccggga tacttccgct actgctctcc actatacaac ttcggacccc 540
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ttggctaacc tcaggatgac catgagctac aaattacaca cgggaacaag attctatgtg 660
gaattgtgtg gtgagtcgct gcc 683

<210> 72
<211> 824
<212> DNA
<213> Homo sapiens

<400> 72
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ccaagctgcg gcttagacgc tgggagcgcg ggcgataagt atactaacca ctagtgctac 120
aacgccgttc ctactgccgc gggctactgc gtgttgatcg cctttactgc ggccttcccg 180
atgggcatac ccaatatgtc ccgcgtggcg accgcgtcct tctccttgtc actagtctta 240
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gtccgctact gtccatatac gaggacggct tatcgcggcg tcccgcattt cctggtagtg 480
cccgctataa ttaccgggat acttccgcta ctgctctcca ctatacaact tcggacccct 540
ttaactgggg gcttaaattg ctgtgtacct ccttcaagta gcaccgattc gctatccagt 600
tggctaacct caggatgacc atgagctaca aattacacac gggaacaaga ttctatgtgg 660
aattgtgtgg tgagtcgctg ataatgtggc ctgctgctgg cggcactgcg cacggccgcc 720
gggggatttc tagaggggtt gatgcgatga tgacggaggt atttatgtag atgccgctgg 780
tgctaacccc cgggagtttt tgacgatagg atgttatttg acgc 824

<210> 73
<211> 970
<212> DNA
<213> Homo sapiens

<400> 73
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cgcttccctc accggactcg cacttagcac ccttgtaaaa ccaggctgct cacatttact 600
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acctttgacg ggccgcgcgc gggcacgggt ccgctcatgc tttatattac gcagtttgtc 720
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tgggagcgcg gtacactcga cgacgcgggc gcaatgagtg aaaattgcag acacgccccg 900
ttatatggtt acggtttatc acaatgctac atgcggaggt gcttggaggg gtagtgccgg 960
tggggttata 970

<210> 74
<211> 619
<212> DNA
<213> Homo sapiens

<400> 74
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ggatgtaacg gtttcccgcc accgccaact gcacgcttcg cgatgtctac tgtgccggaa 180
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ggcggagggg cctatgctta gcatgaaaaa aatacacttt agtacagacg caaccctgcg 420
gaacgcactt gttaggctac cctaatacac acttggggac taccacccac gggaagcacg 480
ggaataaata gaatgaatta aactttaata tttggcgggg tttgaccccg ggtgggaagt 540
gccccgacgg aattaaagcg gtaaatttag taagcgcaca aacgcgaatg caaatggggc 600
ctgtattgat acacacaca 619

<210> 75
<211> 504
<212> DNA
<213> Homo sapiens

<400> 75
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ggccattttt gttatctttt atttaatggc tgccactgtt tttttcatct cggtcatttt 120
ctatattttc aaaagggaga tggaaaaaaa actttgactt caacaagcgc cgaatctggg 180
cgctggattc tagcaatgct actgaggagc ctttggcagg tggcgcagag aaagtcagct 240
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gtggtcctct cttctaaaga gcaaggagct ctctgaggtg gaggaggctt gtgaagactt 360
cccagaacac tgcacccacc tgaccaagag gtacttttta aggtcattca aactgtcatc 420
tacacatgaa taacaatgaa attctcataa agaagcagaa atacccagga ggcatgaaga 480
gtcatcatgc ttcaaaagta catg 504

<210> 76
<211> 1502

<212> DNA
<213> Homo sapiens

<400> 76
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ctgccactgt ttttttcatc tcggtcattt tctatatttt caaaagggag atggaaaaaa 180
aactttgact tcaacaagcg ccgaatctgg gcgctggatt ctagcaatgc tactgaggag 240
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ggtacttttt aaggtcattc aaactgtcat ctacacatga ataacaatga aattctcata 480
aagaagcaga aatacccagg aggcatgaag agtcatcatg cttcaaaagt acatgtatta 540
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tgtattttag caactgcatt ttagtcactc tatattcttt atagtgcctg cccaaatgac 1080
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aattagggtt ctcaaaaatt caacaattac aatcagtaag ttttttaaaa tttaacaaat 1260
tcaacaagta tgtcaacaag tattcaacaa gttagagtta taaacatttg ttcaaaattt 1320
tacacgtggt taataccttc agagcagtta gcagcaagat tctcattttt aaatctttac 1380
ccctttgttc attttaaggc aagatggaga ccatgttgat gtcagagcaa ttggtccagg 1440
gttgtgtgag gagccactag gaagggagaa acagggaaat gtggacccaa acagcatagt 1500
gt 1502

<210> 77
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (17)
<223> a, c, g or t

<400> 77
ctcataagag cagaatncca ggggcatgag agtcatcatg cttcaaagta catgtattag 60
acttcacgac ctcaggaaag tagactccgt aactcttaaa agctcaatct tggagaggag 120
aaacatgctg tttgatgaca tagcacagaa acttgttgaa atatccttgg agcttgagat 180
gtcgagagcg agccatcaga atgttctcaa gaattaaatt gaaaaatgtt gcttcaaaat 240
gtcttagcca accaaataca aacgtttttg tcattgtgac aaaaaaaaag ctcaccaatt 300

gtctttgcta gtctcagcac agcccaagag gagcatcctt catgagccaa ctgaaaaaca 360
gtgtgtagtc tatgcttctg accagatggg cttctcttgt caccataaca ttatgtatta 420
ggacttcatg tattatgtat tatgtcaaca ctttattcat tatgctgatc atactctgta 480
tttcacttgc tctggttatt tgtaaagctt ttccta 516

<210> 78
<211> 1500
<212> DNA
<213> Homo sapiens

<400> 78
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ctgccactgt ttttttcatc tcggtcattt tctatatttt caaaagggag atggaaaaaa 180
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aagaagcaga aatacccagg aggcatgaag agtcatcatg cttcaaaagt acatgtatta 540
ggacttcacg acctcaggaa agtagactcc gtaactctta aaagctcaat cttggagagg 600
agaaacatgc tgtttgatga catagcacag aaacttgttg aaatatcctt ggagcttgag 660
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cagtgtgtag tctatgcttc tgaccagatg ggcttctctt gtcaccataa cattatgtat 900
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attaataagc atttttttctg aatcaataac caacccccaa aaaatctgca gccatggttg 1140
taaataccat acattccaaa gaaaagtgga aatgaatgaa ggaccaattt tgaggaagaa 1200
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ctttgttcat tttaaggcaa gatggagacc atgttgatgt cagagcaatt ggtccagggt 1440
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<210> 79
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<212> DNA
<213> Homo sapiens

<400> 79
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ttaaacataa cgttcataat taccacttgg ggaatacttt tcctagatgc ttaatagcag 420
cattctaccc cactttttc tcagtctgag gggttgagaa ggtgggaaag ttggccctac 480
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cgtgccgggg accctgtacc gtgctgggaa tgcggtaggc agatctcaag ttgtcaggga 180
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<210> 82
<211> 34
<212> PRT
<213> Homo sapiens

<400> 82
Met Lys Tyr Tyr Met Glu Asn Ile Ser Ile Glu Ile Pro Ile Leu Lys
1 5 10 15

Cys Ile Val Phe Ser Leu Ile Val Gln Tyr Val His Cys Asn Phe Leu
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Leu Val

<210> 83
<211> 38
<212> PRT
<213> Homo sapiens

<400> 83
Met Tyr Lys Lys Glu Asn Glu Gln Ile Asn Arg Lys Lys Asp Leu Trp
1 5 10 15

Phe Asn His Ile Glu Leu Leu His Val Cys Tyr Phe Thr Val Lys Asp
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Thr Ser Leu Ile Leu Asn
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<213> Homo sapiens

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<222> (35)

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1 5 10 15

Glu Gln Gly Leu Gly Asn Phe Phe Cys Lys Glu Pro Asn Ile Asn Ile
20 25 30

Leu Asp Xaa Val Gly Gln Val Val Ser Val Ile Ala Thr Gln Ile Cys
35 40 45

Cys Cys Ser Val Asn Gln Pro Glu Leu Ile Phe Xaa Gln Met Ser Xaa
50 55 60

Ala Val Xaa Arg
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<210> 85
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<212> PRT
<213> Homo sapiens

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<222> (41)

<220>
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<220>
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<222> (49)

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Phe Tyr Phe Ser Ser Tyr Thr Val Lys Lys Ser Tyr Phe His Gly Leu
20 25 30

Leu Ser Val Thr Phe Trp Val Phe Xaa Leu Phe Leu Leu Leu Xaa Leu
35 40 45

Xaa Leu Phe Leu Cys Phe Leu Thr Val Tyr Tyr Glu Phe Ala Val
50 55 60

<210> 86
<211> 20
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<213> Homo sapiens

<400> 86
Met Cys Arg Ser Tyr Gly Phe Ser Phe Ile Arg Val Leu Leu Gly Gly
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Trp Gln Val Ser
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<210> 87
<211> 569
<212> PRT
<213> Homo sapiens

<400> 87
Met Leu Lys Glu Trp Ala Ile Lys Gln Gly Ile Leu Leu Lys Val Ala
1 5 10 15

Glu Thr Ile Lys Ser Trp Ile Phe Phe Ser Gln Cys Asn Lys Lys Asp
20 25 30

Asp Leu Leu His Lys Leu Asp Ile Gly Phe Arg Leu Asp Ser Leu His
35 40 45

Thr Ile Leu Gln Gln Glu Val Leu Leu Gln Glu Asp Val Glu Leu Ile
50 55 60

Glu Leu Leu Asp Pro Ser Ile Leu Ser Ala Gly Gln Ser Gln Gln Gln
65 70 75 80

Glu Asn Gly His Leu Pro Thr Leu Cys Ser Leu Ala Thr Pro Asn Ile
85 90 95

Trp Asp Leu Ser Met Leu Phe Ala Phe Ile Ser Leu Leu Val Met Leu
100 105 110

Pro Thr Trp Trp Ile Val Ser Ser Trp Leu Val Trp Gly Val Ile Leu

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115 120 125

Phe Val Tyr Leu Val Ile Arg Ala Leu Arg Leu Trp Arg Thr Ala Lys
130 135 140

Leu Gln Val Thr Leu Lys Lys Tyr Ser Val His Leu Glu Asp Met Ala
145 150 155 160

Thr Asn Ser Arg Ala Phe Thr Asn Leu Val Arg Lys Ala Leu Arg Leu
165 170 175

Ile Gln Glu Thr Glu Val Ile Ser Arg Gly Phe Thr Leu Val Ile Ala
180 185 190

Ala Cys Pro Phe Asn Lys Ala Gly Gln His Pro Ser Gln His Leu Ile
195 200 205

Gly Leu Arg Lys Ala Val Tyr Arg Thr Leu Arg Ala Asn Phe Gln Ala
210 215 220

Ala Arg Leu Ala Thr Leu Tyr Met Leu Lys Asn Tyr Pro Leu Asn Ser
225 230 235 240

Glu Ser Asp Asn Val Thr Asn Tyr Ile Cys Val Val Pro Phe Lys Glu
245 250 255

Leu Gly Leu Gly Leu Ser Glu Glu Gln Ile Ser Glu Glu Glu Ala His
260 265 270

Asn Phe Thr Asp Gly Phe Ser Leu Pro Ala Leu Lys Val Leu Phe Gln
275 280 285

Leu Trp Val Ala Gln Ser Ser Glu Phe Phe Arg Arg Leu Ala Leu Leu
290 295 300

Leu Ser Thr Ala Asn Ser Pro Pro Gly Pro Leu Leu Thr Pro Ala Leu
305 310 315 320

Leu Pro His Arg Ile Leu Ser Asp Val Thr Gln Gly Leu Pro His Ala
325 330 335

His Ser Ala Cys Leu Glu Glu Leu Lys Arg Ser Tyr Glu Phe Tyr Arg
340 345 350

Tyr Phe Glu Thr Gln His Gln Ser Val Pro Gln Cys Leu Ser Lys Thr
355 360 365

Gln Gln Lys Ser Arg Glu Leu Asn Asn Val His Thr Ala Val Arg Ser

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370 375 380

Leu Gln Leu His Leu Lys Ala Leu Leu Asn Glu Val Ile Ile Leu Glu
385 390 395 400

Asp Glu Leu Glu Lys Leu Val Cys Thr Lys Glu Thr Gln Glu Leu Val
405 410 415

Ser Glu Ala Tyr Pro Ile Leu Glu Gln Lys Leu Lys Leu Ile Gln Pro
420 425 430

His Val Gln Ala Ser Asn Asn Cys Trp Glu Glu Ala Ile Ser Gln Val
435 440 445

Asp Lys Leu Leu Arg Arg Asn Thr Asp Lys Lys Gly Lys Pro Glu Ile
450 455 460

Ala Cys Glu Asn Pro His Cys Thr Val Val Pro Leu Lys Gln Pro Thr
465 470 475 480

Leu His Ile Ala Asp Lys Asp Pro Ile Pro Glu Glu Gln Glu Leu Glu
485 490 495

Ala Tyr Val Asp Asp Ile Asp Ile Asp Ser Asp Phe Arg Lys Asp Asp
500 505 510

Phe Tyr Tyr Leu Ser Gln Glu Asp Lys Glu Arg Gln Lys Arg Glu His
515 520 525

Glu Glu Ser Lys Arg Val Leu Gln Glu Leu Lys Ser Val Leu Gly Phe
530 535 540

Lys Ala Ser Glu Ala Glu Arg Gln Lys Trp Lys Gln Leu Leu Phe Ser
545 550 555 560

Asp His Gly Val Lys Ser Ala Trp Asn
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<210> 88
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (7)..(24)

<400> 88
Met Ser Leu Ser Leu Pro Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Ser Thr Lys Ser Phe Gln Ile
20 25 30

Leu His Thr Gln Phe Phe Leu Val Phe Met Ser Asp Ser Ile Val His
35 40 45

Leu Ser Gln
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<210> 89
<211> 105
<212> PRT
<213> Homo sapiens

<400> 89
Met Ser Ser Asp Leu Pro Pro Lys Lys Ser Lys Asp Lys Leu Asp Lys
1 5 10 15

Lys Lys Glu Val Val Lys Pro Pro Tyr Pro Lys Ile Arg Arg Ala Ser
20 25 30

Gly Arg Leu Ala Gly Arg Lys Val Phe Val Glu Ile Pro Lys Lys Lys
35 40 45

Tyr Thr Arg Arg Leu Arg Glu Gln Gln Lys Thr Ala Glu Gly Asp Val
50 55 60

Gly Asp Tyr Arg Cys Pro Gln Asp Gln Ser Pro Asp Arg Val Gly Thr
65 70 75 80

Glu Met Glu Pro Val Ser Lys Asn Glu Gly Cys Gln Ala Gly Ala Glu
85 90 95

Leu Glu Asp Leu Ser Lys Lys Ala Gly
100 105

<210> 90
<211> 711
<212> PRT
<213> Homo sapiens

<400> 90

Met Glu Ser Gly Ala Val Leu Leu Glu Ser Lys Ser Ser Pro Phe Asn
1 5 10 15

Leu Leu His Glu Met His Glu Leu Arg Leu Leu Gly His Leu Cys Asp
20 25 30

Val Thr Val Ser Val Glu Tyr Gln Gly Val Arg Lys Asp Phe Met Ala
35 40 45

His Lys Ala Val Leu Ala Ala Thr Ser Lys Phe Phe Lys Glu Val Phe
50 55 60

Leu Asn Glu Lys Ser Val Asp Gly Thr Arg Thr Asn Val Tyr Leu Asn
65 70 75 80

Glu Val Gln Val Ala Asp Phe Ala Ser Phe Leu Glu Phe Val Tyr Thr
85 90 95

Ala Lys Val Gln Val Glu Glu Asp Arg Val Gln Arg Met Leu Glu Val
100 105 110

Ala Glu Lys Leu Lys Cys Leu Asp Leu Ser Glu Thr Cys Phe Gln Leu
115 120 125

Lys Lys Gln Met Leu Glu Ser Val Leu Leu Glu Leu Gln Asn Phe Ser
130 135 140

Glu Ser Gln Glu Val Glu Val Ser Ser Gly Ser Gln Val Ser Ala Ala
145 150 155 160

Pro Ala Pro Arg Ala Ser Val Ala Thr Asp Gly Pro His Pro Ser Gly
165 170 175

Leu Thr Asp Ser Leu Asp Tyr Pro Gly Glu Arg Ala Ser Asn Gly Met
180 185 190

Ser Ser Asp Leu Pro Pro Lys Lys Ser Lys Asp Lys Leu Asp Lys Lys
195 200 205

Lys Glu Val Val Lys Pro Pro Tyr Pro Lys Ile Arg Arg Ala Ser Gly
210 215 220

Arg Leu Ala Gly Arg Lys Val Leu Val Glu Ile Pro Lys Lys Lys Tyr
225 230 235 240

Thr Arg Arg Leu Arg Glu Gln Gln Lys Thr Ala Glu Gly Asp Val Gly
245 250 255

Asp Tyr Arg Cys Pro Gln Asp Gln Ser Pro Asp Arg Val Gly Thr Glu
260 265 270

Met Glu Gln Val Ser Lys Asn Glu Gly Cys Gln Ala Gly Ala Glu Leu
275 280 285

Glu Glu Leu Ser Lys Lys Ala Gly Pro Glu Glu Glu Glu Glu Glu Glu
290 295 300

Glu Glu Asp Glu Glu Gly Glu Lys Lys Lys Ser Asn Phe Lys Cys Ser
305 310 315 320

Ile Cys Glu Lys Ala Phe Leu Tyr Glu Lys Ser Phe Leu Lys His Ser
325 330 335

Lys His Arg His Gly Val Ala Thr Glu Val Val Tyr Arg Cys Asp Thr
340 345 350

Cys Gly Gln Thr Phe Ala Asn Arg Cys Asn Leu Lys Ser His Gln Arg
355 360 365

His Val His Ser Ser Glu Arg His Phe Pro Cys Glu Leu Cys Gly Lys
370 375 380

Lys Phe Lys Arg Lys Lys Asp Val Lys Arg His Val Leu Gln Val His
385 390 395 400

Glu Gly Gly Gly Glu Arg His Arg Cys Gly Gln Cys Gly Lys Gly Leu
405 410 415

Ser Ser Lys Thr Ala Leu Arg Leu His Glu Arg Thr His Thr Gly Asp
420 425 430

Arg Pro Tyr Gly Cys Thr Glu Cys Gly Ala Arg Phe Ser Gln Pro Ser
435 440 445

Ala Leu Lys Thr His Met Arg Ile His Thr Gly Glu Lys Pro Phe Val
450 455 460

Cys Asp Glu Cys Gly Ala Arg Phe Thr Gln Asn His Met Leu Ile Tyr
465 470 475 480

His Lys Arg Cys His Thr Gly Glu Arg Pro Phe Met Cys Glu Thr Cys
485 490 495

Gly Lys Ser Phe Ala Ser Lys Glu Tyr Leu Lys His His Asn Arg Ile
500 505 510

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His Thr Gly Ser Lys Pro Phe Lys Cys Glu Val Cys Phe Arg Thr Phe
        515                 520                 525

Ala Gln Arg Asn Ser Leu Tyr Gln His Ile Lys Val His Thr Gly Glu
    530                 535                 540

Arg Pro Tyr Cys Cys Asp Gln Cys Gly Lys Gln Phe Thr Gln Leu Asn
545                 550                 555                 560

Ala Leu Gln Arg His Arg Arg Ile His Thr Gly Glu Arg Pro Phe Met
                565                 570                 575

Cys Asn Ala Cys Gly Arg Thr Phe Thr Asp Lys Ser Thr Leu Arg Arg
            580                 585                 590

His Thr Ser Ile His Asp Lys Asn Thr Pro Trp Lys Ser Phe Leu Val
        595                 600                 605

Ile Val Asp Gly Ser Pro Lys Asn Asp Asp Gly His Lys Thr Glu Gln
    610                 615                 620

Pro Asp Glu Glu Tyr Val Ser Ser Lys Leu Ser Asp Lys Leu Leu Ser
625                 630                 635                 640

Phe Ala Glu Asn Gly His Phe His Asn Leu Ala Ala Val Gln Asp Thr
                645                 650                 655

Val Pro Thr Met Gln Glu Asn Ser Ser Ala Asp Thr Ala Cys Lys Ala
            660                 665                 670

Asp Asp Ser Val Val Ser Gln Asp Thr Leu Leu Ala Thr Thr Ile Ser
        675                 680                 685

Glu Leu Ser Glu Leu Thr Pro Gln Thr Asp Ser Met Pro Thr Gln Leu
    690                 695                 700

His Ser Leu Ser Asn Met Glu
705                 710
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<210> 91
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (27)

<400> 91
Met Phe Arg Lys Gly Met Leu Pro Leu Asp Met Glu Ala Ser Leu Asn
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Cys Tyr Ile Ser Leu Arg Lys Leu Met Arg Xaa Met Pro Glu Lys Glu
20 25 30

Asp Ser Asn Lys Glu Asp Lys Arg Lys Thr Asp Lys Ser Ile Glu Phe
35 40 45

Leu

<210> 92
<211> 18
<212> PRT
<213> Homo sapiens

<400> 92
Met Ala Glu Asp Lys Leu Pro Ser Arg Val Gly Asn Leu Asn Pro Lys
1 5 10 15

Ser Leu

<210> 93
<211> 36
<212> PRT
<213> Homo sapiens

<400> 93
Met Leu Trp Phe Gln Pro Gln His Pro Ala Lys Val Ser Trp Val Ile
1 5 10 15

Gly Thr Leu Leu Thr Cys Thr Gly Cys Lys Pro Leu Ile Thr Ser Ser
20 25 30

Asp Gly Gln Thr
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<210> 94
<211> 77
<212> PRT
<213> Homo sapiens

<400> 94
Met Phe Cys Lys Trp Ser Ala Gln Leu Ala Arg Phe Pro Ser Ala Cys
1 5 10 15

Gly Gln Arg Val Val His Arg Pro Asp Arg Ser Phe Leu Ala Thr Leu
20 25 30

Glu Leu Cys Leu Pro Pro Gln Leu Pro Ser Phe Cys Tyr Cys Ile Ile
35 40 45

Asn Ile Ser Pro Leu Glu Lys Met Tyr Val Gln Phe Leu Gln Arg Leu
50 55 60

His Arg Gly Gly Pro Thr Leu Asn Glu Leu Thr Leu Thr
65 70 75

<210> 95
<211> 20
<212> PRT
<213> Homo sapiens

<400> 95
Met Ser Ser Ile Tyr Pro Met Pro Leu Glu Pro Phe Leu Val Ile Val
1 5 10 15

Ser Leu Cys Tyr
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<210> 96
<211> 52
<212> PRT
<213> Homo sapiens

<400> 96
Met Arg Ile Thr Phe Phe Thr Arg Leu Thr Leu Lys Gly Lys Thr His
1 5 10 15

Lys Cys His Thr Thr Ile Asn Val Thr Leu Tyr Ser Cys Asn Trp Ile
20 25 30

Ser Asp Tyr Ser His Lys Pro Leu Ser Leu Leu Leu Gln Leu Met Gly
35 40 45

Gly His Phe Asp
50

<210> 97
<211> 38
<212> PRT
<213> Homo sapiens

<400> 97
Met Thr Val Ser Pro Val Phe Leu Met Ala Asn Asn Asn Asn Lys Ser
1 5 10 15

Asn Leu Phe Thr Tyr Gln Phe Glu Pro Pro Asp Leu Leu Leu Val Leu
20 25 30

His Pro Ser Ile Lys Lys
35

<210> 98
<211> 54
<212> PRT
<213> Homo sapiens

<400> 98
Phe Leu Leu Leu Phe Phe Ile Cys Leu Phe Phe Tyr Glu Thr Glu Ser
1 5 10 15

Cys Ser Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Ser Leu
20 25 30

Gln Pro Leu Pro Pro Trp Phe Lys Ala Phe Ser Cys Leu Ser Leu Pro
35 40 45

Ser Ser Trp Asp Tyr Arg
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<210> 99
<211> 51
<212> PRT
<213> Homo sapiens

<400> 99
Met Phe Leu Asp Ile Phe Asn Ser Phe Arg Cys Ile Ala Leu Ser Ala
1 5 10 15

Ser Gly Leu Leu His Lys Ser Ile Ser Ser Glu Leu Thr Leu Trp Ile
20 25 30

Pro Phe Ser Lys Leu Glu Gly Val Ile Lys Phe Leu Ile Ile Arg Val
35 40 45

Leu Val Ile
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<210> 100
<211> 25
<212> PRT
<213> Homo sapiens

<400> 100
Met Val Ser Lys Asp Pro Ser His Val Gln Asp Val Ser Ser Ser Ala
1 5 10 15

Leu His Leu His Ile His Cys His Ser
20 25

<210> 101
<211> 76
<212> PRT
<213> Homo sapiens

<400> 101
Met Val Phe Gln Tyr Met Gln Pro Ser Ser Ser Lys Leu Arg Thr Phe
1 5 10 15

Leu Ser Pro Pro Thr Arg Ser Pro Met His Met Gly Pro Ser Leu Pro
20 25 30

Arg Pro Pro Asn Pro Ser Pro Ala Leu Ile Val Gly His Trp Pro Val
35 40 45

Leu Gly His Ser Asn Arg Ser Arg Ala Thr Leu Thr Val Cys Val Phe
50 55 60

Gly Pro Arg Val Ala Val Cys Met Arg Ser His Ala
65 70 75

<210> 102
<211> 43
<212> PRT
<213> Homo sapiens

<400> 102
Met Ser Lys Val Val Val Leu Asn Phe Asp Lys Asn Gly Ser Leu Thr
1 5 10 15

Thr Tyr Leu Ser Lys Lys Met Ala Pro Lys Trp Lys Leu His Ile Ser
20 25 30

Trp Ala Pro Glu Ser Arg Met Leu Cys Ser Trp
35 40

<210> 103
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (27)..(50)

<400> 103
Met Tyr Ser Ser Leu Phe Val Lys Leu Leu His Val Tyr Ile Ile Phe
1 5 10 15

Leu Thr Glu Gly Phe Phe Arg Tyr Tyr Phe Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Asp Phe Leu
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<210> 104
<211> 49
<212> PRT
<213> Homo sapiens

<400> 104
Met Lys Ser His His His Pro Phe Pro Leu Asp Ser Pro Val Pro Pro
1 5 10 15

Leu Leu Tyr Leu Ile Leu Ser Ser Pro Gln Ser Arg Asn Ile Ile Arg
20 25 30

Leu Ala Asn Thr Arg Gln Lys Leu Cys Met Cys Ile Phe Trp Glu Lys
35 40 45

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Val

<210> 105
<211> 80
<212> PRT
<213> Homo sapiens

<400> 105
Met Gln Pro Gly Phe Leu Arg Ser Lys Phe Leu Ser Gln Ala Cys Pro
1 5 10 15

Glu Cys Lys Pro Leu Ser Ser Ile Gln Gly Phe Gln Ala Leu Ser Gly
20 25 30

Thr His Arg Cys Cys Trp Gln Gly Glu Glu Gly Ser Thr Ser Phe Gln
35 40 45

Leu Ser Cys Leu Leu Leu Val Leu Gln Gln Pro Val Leu Pro Leu Cys
50 55 60

Leu Cys Thr Cys Lys Ser Pro Cys Leu Asn Cys Leu Pro Gln Leu Ala
65 70 75 80

<210> 106
<211> 56
<212> PRT
<213> Homo sapiens

<400> 106
Met Ser Gln Pro Asp Phe Gln Ala Glu Leu Asp Trp Asn Arg His Gly
1 5 10 15

Leu Gly Gly Val Pro Val Pro Val His Cys Ser His Phe Arg Arg Glu
20 25 30

Arg Asp Pro Pro Gly Arg Ser Arg Gly Arg Ala Gly Thr Ala Leu Gly
35 40 45

Leu Leu Thr Trp Gln Ala Gln Gln
50 55

<210> 107
<211> 98
<212> PRT
<213> Homo sapiens

<400> 107
Met Thr Trp Cys Tyr Pro Thr Thr Val His Ile Leu Gly Gln Pro Leu
1 5 10 15

Ser Leu Glu Pro Val Leu Glu Gly Arg Met Ser Met Leu Asn Leu Ser
20 25 30

Leu Ile Gln Asp Asn Val Ala Ser Ile Leu Asp Ala Phe Ser Pro Leu
35 40 45

Phe Ser Glu Cys Leu Phe Thr Ser Glu Phe Thr Arg Arg Lys Ser Leu
50 55 60

Gly Glu Arg Val Gly Arg Gly Pro Leu Gly Pro Glu Asn Ser Trp Pro
65 70 75 80

Gly Gly Ala His Leu Trp Phe Phe Trp Leu Cys Asp Arg Val Thr Thr
85 90 95

Arg Gly

<210> 108
<211> 99
<212> PRT
<213> Homo sapiens

<400> 108
Met His Leu Pro Leu Ile Phe Pro Ser Ser Ser Ser Ser Tyr Leu Leu
1 5 10 15

Ile Pro Pro Gly Leu Ser Val Leu Arg Gly Leu Glu Pro Leu Gly Tyr
20 25 30

Thr Asp Gly His Pro Thr Trp Glu Glu His His Val Ser Gly Asp Leu
35 40 45

Gly Ser Pro Cys Ser Val Phe Leu Ser Val Gly Ser Gln Leu Leu Glu
50 55 60

Leu Asn Met Pro Leu Ser Phe Ser Leu Leu Pro Gln Met Glu Thr Val

65 70 75 80

Leu Ala Lys Ile Phe Lys Ile Asp Ile Ile Glu Leu Lys Gly Asp Ile
85 90 95

Val Gln Gly

<210> 109
<211> 64
<212> PRT
<213> Homo sapiens

<400> 109
Met Thr Ile Leu Cys Lys Asn Asn Phe Gln Val Phe Ser Gln Phe Leu
1 5 10 15

Tyr Asn Leu Phe Pro Pro Ile Tyr Val Pro Lys Cys Asn Ser Ser Ser
20 25 30

Cys Lys Asn Glu Glu Met Gly Gly Asn Val Gly Ala Phe Leu Phe Gln
35 40 45

Asp Arg Lys Leu Lys His Lys Leu Ile Cys Met Lys Cys Phe Lys Ser
50 55 60

<210> 110
<211> 35
<212> PRT
<213> Homo sapiens

<400> 110
Met Asn Ser Pro Ser Ala Gly Ser His Glu Thr Pro Leu Tyr Leu Gln
1 5 10 15

Ile Gly Ser Leu Leu Thr Gln Arg Ser Gly Leu Glu Asn Thr Ile Gly
20 25 30

Leu Lys Arg
35

<210> 111

<211> 25
<212> PRT
<213> Homo sapiens

<400> 111
Met Ala Tyr Phe Leu Gly Thr Tyr Leu Ser Leu Ser Tyr Lys Phe Phe
1 5 10 15

Leu Ser Ile Tyr Phe Ile Lys Met Thr
20 25

<210> 112
<211> 18
<212> PRT
<213> Homo sapiens

<400> 112
Met Ser Ala Ile Gln Thr Asp Arg Phe Leu Ser Ser Val Glu Met Arg
1 5 10 15

Leu Phe

<210> 113
<211> 128
<212> PRT
<213> Homo sapiens

<400> 113
Gly Thr Val Val Gly Val Asp Glu Ser Thr Ala Phe Ser Trp Pro Val
1 5 10 15

Cys Asp Met Cys Gly Asn Gly Arg Leu Glu Gln Arg Pro Glu Asp Arg
20 25 30

Gly Ala Phe Ser Cys Gly Asp Cys Ser Arg Val Val Thr Ser Pro Val
35 40 45

Leu Lys Arg His Leu Gln Val Phe Leu Asp Cys Arg Ser Arg Pro Gln
50 55 60

Cys Arg Val Lys Val Lys Leu Leu Gln Arg Ser Ile Ser Ser Leu Leu
65 70 75 80

Arg Phe Ala Ala Gly Glu Asp Gly Val Ser Ala Gly Gly Pro Ala Gln
85 90 95

Gly Ala Ala His Ser Val Ala Cys Met Ser Asn Ser Ser Pro Glu Glu
100 105 110

Ala Pro Thr Pro Lys Cys Val Leu Leu Gln Pro Ile Pro Leu Gly Ser
115 120 125

<210> 114
<211> 79
<212> PRT
<213> Homo sapiens

<400> 114
Met Val Ala Leu Gly Ala Ser Thr His His Leu Thr Ser Ala Arg Phe
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Val Leu Glu Glu Gly Gly Phe Leu Arg Asp Gly Gly Leu Leu Gly Lys
20 25 30

Ala Lys Gly Cys Ile Ala Ala Glu Arg Phe Glu Pro Gln Phe Gly Gly
35 40 45

His Val Leu Cys Pro Ala Pro Pro Ser Leu Gly Arg Arg Asn Arg Leu
50 55 60

Leu Val Lys Trp Glu Ile Gly Phe Pro Gly Ala Pro Leu Arg Pro
65 70 75

<210> 115
<211> 18
<212> PRT
<213> Homo sapiens

<400> 115
Met Phe Pro Tyr Phe Val Cys Leu Cys Gly His Leu Ala Phe Leu Trp
1 5 10 15

His Arg

<210> 116
<211> 66

<212> PRT
<213> Homo sapiens

<400> 116
Met Leu Ser Ala Gln Ile Gln Leu Ala Thr Phe Tyr Cys Thr Thr His
1 5 10 15

Thr Cys Asn Ala Val Tyr Leu Lys Thr Asn Leu Lys Glu Met Glu Asn
20 25 30

Arg Lys Thr Phe Ser Pro Val Asn Phe Tyr Lys Ser Gln Glu Gly Phe
35 40 45

His Tyr Lys Val Gly Ile Thr Asn Ser Arg Gly Lys Lys Val Arg Asn
50 55 60

Lys Asp
65

<210> 117
<211> 20
<212> PRT
<213> Homo sapiens

<400> 117
Met Ile Ser Ile Lys Lys Gln Val Leu Tyr Leu Cys Phe Thr Gln Asn
1 5 10 15

Lys Ile Leu Val
20

<210> 118
<211> 595
<212> PRT
<213> Homo sapiens

<400> 118
Met Lys Phe Phe Ser Tyr Ile Leu Val Tyr Arg Arg Phe Leu Phe Val
1 5 10 15

Val Phe Thr Val Leu Val Leu Leu Pro Leu Pro Ile Val Leu His Thr
20 25 30

Lys Glu Ala Glu Cys Ala Tyr Thr Leu Phe Val Val Ala Thr Phe Trp
35 40 45

Leu Thr Glu Ala Leu Pro Leu Ser Val Thr Ala Leu Leu Pro Ser Leu
50 55 60

Met Leu Pro Met Phe Gly Ile Met Pro Ser Lys Lys Val Ala Ser Ala
65 70 75 80

Tyr Phe Lys Asp Phe His Leu Leu Leu Ile Gly Val Ile Cys Leu Ala
85 90 95

Thr Ser Ile Glu Lys Trp Asn Leu His Lys Arg Ile Ala Leu Lys Met
100 105 110

Val Met Met Val Gly Val Asn Pro Ala Trp Leu Thr Leu Gly Phe Met
115 120 125

Ser Ser Thr Ala Phe Leu Ser Met Trp Leu Ser Asn Thr Ser Thr Ala
130 135 140

Ala Met Val Met Pro Ile Ala Glu Ala Val Val Gln Gln Ile Ile Asn
145 150 155 160

Ala Glu Ala Glu Val Glu Ala Thr Gln Met Thr Tyr Phe Asn Gly Ser
165 170 175

Thr Asn His Gly Leu Glu Ile Asp Glu Ser Val Asn Gly His Glu Ile
180 185 190

Asn Glu Arg Lys Glu Lys Thr Lys Pro Val Pro Gly Tyr Asn Asn Asp
195 200 205

Thr Gly Lys Ile Ser Ser Lys Val Glu Leu Glu Lys Asn Ser Gly Met
210 215 220

Arg Thr Lys Tyr Arg Thr Lys Lys Gly His Val Thr Arg Lys Leu Thr
225 230 235 240

Cys Leu Cys Ile Ala Tyr Ser Ser Thr Ile Gly Gly Leu Thr Thr Ile
245 250 255

Thr Gly Thr Ser Thr Asn Leu Ile Phe Ala Glu Tyr Phe Asn Thr Arg
260 265 270

Tyr Pro Asp Cys Arg Cys Leu Asn Phe Gly Ser Trp Phe Thr Phe Ser
275 280 285

Phe Pro Ala Ala Leu Ile Ile Leu Leu Leu Ser Trp Ile Trp Leu Gln
290 295 300

Replacement Sheet

Trp Leu Phe Leu Gly Phe Asn Phe Lys Glu Met Phe Lys Cys Gly Lys
305 310 315 320

Thr Lys Thr Val Gln Gln Lys Ala Cys Ala Glu Val Ile Lys Gln Glu
325 330 335

Tyr Gln Lys Leu Gly Pro Ile Arg Tyr Gln Glu Ile Val Thr Leu Val
340 345 350

Leu Phe Ile Ile Met Ala Leu Leu Trp Phe Ser Arg Asp Pro Gly Phe
355 360 365

Val Pro Gly Trp Ser Ala Leu Phe Ser Glu Tyr Pro Gly Phe Ala Thr
370 375 380

Asp Ser Thr Val Ala Leu Leu Ile Gly Leu Leu Phe Phe Leu Ile Pro
385 390 395 400

Ala Lys Thr Leu Thr Lys Thr Thr Pro Thr Gly Glu Ile Val Ala Phe
405 410 415

Asp Tyr Ser Pro Leu Ile Thr Trp Lys Glu Phe Gln Ser Phe Met Pro
420 425 430

Trp Asp Ile Ala Ile Leu Val Gly Gly Gly Phe Ala Leu Ala Asp Gly
435 440 445

Cys Glu Glu Ser Gly Leu Ser Lys Trp Ile Gly Asn Lys Leu Ser Pro
450 455 460

Leu Gly Ser Leu Pro Ala Trp Leu Ile Ile Leu Ile Ser Ser Leu Met
465 470 475 480

Val Thr Ser Leu Thr Glu Val Ala Ser Asn Pro Ala Thr Ile Thr Leu
485 490 495

Phe Leu Pro Ile Leu Ser Pro Leu Ala Glu Ala Ile His Val Asn Pro
500 505 510

Leu Tyr Ile Leu Ile Pro Ser Thr Leu Cys Thr Ser Phe Ala Phe Leu
515 520 525

Leu Pro Val Ala Asn Pro Pro Asn Ala Ile Val Phe Ser Tyr Gly His
530 535 540

Leu Lys Val Ile Asp Met Val Lys Ala Gly Leu Gly Val Asn Ile Val
545 550 555 560

Gly Val Ala Val Val Met Leu Gly Ile Cys Thr Trp Ile Val Pro Met
565 570 575

Phe Asp Leu Tyr Thr Tyr Pro Ser Trp Ala Pro Ala Met Ser Asn Glu
580 585 590

Thr Met Pro
595

<210> 119
<211> 53
<212> PRT
<213> Homo sapiens

<400> 119
Met Gly Ile Cys Phe Cys Thr Cys Cys Lys Arg Lys Ile Val Lys Leu
1 5 10 15

Gln Glu Thr Lys Glu Lys Gly Lys Glu Glu Arg Lys Gly Phe Gly Ile
20 25 30

Leu Leu Lys Lys Phe Leu Tyr Leu Lys Arg Phe His Gln Cys Glu Phe
35 40 45

Pro Asn Leu Val Ile
50

<210> 120
<211> 88
<212> PRT
<213> Homo sapiens

<400> 120
Met Phe Val Thr Ala Phe Ala Ser Asn Pro Pro Thr Pro Ala Ala Asp
1 5 10 15

Leu Thr Val Cys Arg Leu Arg Gln Leu His Ala Thr Arg Ser Val Val
20 25 30

Leu Asn Cys Leu Pro Thr Cys Ala Arg Val Asn Ile Trp Gly Val Gly
35 40 45

Gly Trp Val Gly Gly Gly Gln Arg Glu Glu Arg Gly Gly Val Cys Val
50 55 60

Gly Cys Gly Ala Arg Val Glu Pro Leu Met Ile Lys Asp Ile Ile Gly

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65 70 75 80

Leu Lys Leu Pro Leu Tyr Thr Phe
85

<210> 121
<211> 50
<212> PRT
<213> Homo sapiens

<400> 121
Met Val Ile Leu Arg Leu Ala Leu Leu Met Arg Ala Leu Asn Leu Ala
1 5 10 15

Thr Glu Ala Val Thr Gly Thr Glu Phe Leu Pro Gly Asn Asp Asp Ser
20 25 30

Val Leu Arg Arg Arg Arg Gln Asn Leu Pro Asp Leu His Leu Leu Lys
35 40 45

Gln Asn
50

<210> 122
<211> 90
<212> PRT
<213> Homo sapiens

<400> 122
Met Ser Leu Lys Val Val Tyr Gly Thr Ser Ser Val Arg Glu Thr Ser
1 5 10 15

Ile Glu Val Pro Arg Ala Leu Ile Thr Lys Asn Glu Asp Gly Ala Lys
20 25 30

Asn Glu Thr Cys Tyr Leu Val Arg Tyr Thr Arg Pro Thr Ser Asn Ser
35 40 45

Leu Val Cys Phe Glu Arg Trp Leu Leu Ile Glu Gly Gln Trp Trp Trp
50 55 60

Val Asn Ser Ile Phe Ile Ala Arg Ser His Val Arg His Gly His Gly
65 70 75 80

Lys Glu Ala Ile Gly Phe Arg Ile Ala Asp
85 90

<210> 123
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (8)..(14)

<400> 123
Met Ile Ala Cys Tyr Glu Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ser
1 5 10 15

Ser Phe Leu Ala Leu Gln Arg Asn Leu Gly Gly Ala Ser Ala Pro Ala
20 25 30

Leu Leu Asn Arg Pro Ser Leu Ser His Gln His Arg Val Ser Ile Ser
35 40 45

Pro His Tyr Arg Ala Lys Val
50 55

<210> 124
<211> 134
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (28)

<400> 124
Met Arg Ala Leu Asn Leu Ala Thr Glu Ala Val Thr Gly Thr Glu Phe
1 5 10 15

Leu Pro Gly Asn Asp Asp Ser Val Leu Arg Arg Xaa Arg Glu Gln His
20 25 30

Ala Gly Tyr Pro Cys Ile Arg Cys Arg Thr Leu Val Ala Asn Val Ala
35 40 45

Arg Ser Phe Ser Tyr Gly Val Ile Pro Phe Phe Phe Ala Leu Arg Leu
50 55 60

Arg Phe Ser Phe Cys Pro Tyr Gln Leu Pro Ala Pro Ser Pro Phe Leu

65 70 75 80

Pro Asp Leu Ile Tyr Gly Arg Val Pro Arg Leu Leu Ser Cys Ser Pro
85 90 95

Leu Arg Gln Val Ser Ala Ala Cys Ala Gly Phe Arg Pro Gln Ala Tyr
100 105 110

Pro Pro Leu Ser Cys Gly Thr Ala Pro Thr Ser Pro His His Ile Pro
115 120 125

Leu Gly Cys Arg Gly Arg
130

<210> 125
<211> 199
<212> PRT
<213> Homo sapiens

<400> 125
Pro Thr Ser Cys Ala Ile Ala Ile Pro Ala Gly Pro Asp Leu Arg Pro
1 5 10 15

Cys Pro Pro Phe Ala Ala Ala Ala Leu Pro Ala Gly Arg Phe Pro Pro
20 25 30

Leu Ala Pro Val Leu Gly Arg Arg Pro Thr Pro Pro Phe Pro Val Tyr
35 40 45

Gly Pro Tyr Ala Pro Pro Ser His Pro Pro Trp Leu Pro Gly Pro Leu
50 55 60

Ala Val Thr Pro Pro Phe Pro Thr Ala Thr Leu Thr Leu Trp Ala Ser
65 70 75 80

Pro Arg Ala Pro Trp Pro Leu Ala Ala Val Val Val Phe Pro Phe His
85 90 95

Gln Ser Pro Phe Ser Phe Gln Pro Gly Ser Ser Arg Arg Pro Pro Val
100 105 110

Gln Leu Pro Ser Val Pro Pro Ser Pro Leu Pro Arg Ser Pro Leu Cys
115 120 125

Arg Gly Ser Ala Thr Pro Ser Pro Pro Pro Ser Pro Leu Ala Phe Ala
130 135 140

```
Pro Cys Ser Pro Arg Pro Arg Ser Pro Pro Ala Arg Arg Phe Pro Ala
145                 150                 155                 160

Ala Tyr Pro Leu Ser Pro Gly Pro Ser Pro His Pro Ala Ser Pro Arg
                165                 170                 175

Pro Pro Pro Gln Pro Ala Ala Pro Asn Pro Phe Pro Arg Pro Pro Pro
            180                 185                 190

Leu Leu Leu Thr Pro Ser Pro
        195
```

<210> 126
<211> 55
<212> PRT
<213> Homo sapiens

<400> 126

```
Met Val Glu Val Val Thr Leu Leu Pro Asp Thr Asn Pro Ala Gly Thr
  1               5                  10                  15

Ala Gly Cys Pro Ser Phe Phe Val Ala Arg Tyr His Arg Phe Pro Glu
             20                  25                  30

Gly Ile Pro Phe Gln Leu Leu Pro Gln Leu Leu Asn Leu Glu His Ala
         35                  40                  45

Ser Glu Ala Leu Thr Ser Gly
     50                  55
```

<210> 127
<211> 19
<212> PRT
<213> Homo sapiens

<400> 127

```
Met His Ala Thr Arg Thr Leu Val Leu Asn Cys Leu Pro Trp Cys Ala
  1               5                  10                  15

Arg Val Met
```

<210> 128
<211> 113
<212> PRT

<213> Homo sapiens

<400> 128

```
Met Leu Thr Met Ala Pro Pro Tyr Phe Ser Pro Ser Pro Pro Pro Pro
  1               5                  10                  15

Phe Val Leu Ala Arg Cys Pro Gly Pro Pro Gly Ala Phe Val Leu His
             20                  25                  30

Leu Pro Phe His His Ser Ser Thr Phe Ser Phe Gly His Leu Pro Pro
         35                  40                  45

Leu Ser Ser Pro Arg Phe Val Phe Met Phe Pro Ser Cys Pro Val Leu
     50                  55                  60

Ser Leu Phe Leu Ile Lys Phe Cys Thr Ala Pro Ser Gly Ala Ala Pro
 65                  70                  75                  80

Phe Ser Trp Ser Val Ala Thr Leu Gln Pro Leu Pro Ala Leu Arg Pro
                 85                  90                  95

Leu Phe Pro Pro Leu His Val Leu Val Ser Leu Ser Val Pro His Ala
            100                 105                 110

Arg
```

<210> 129
<211> 59
<212> PRT
<213> Homo sapiens

<400> 129

```
Met Lys Thr Arg Gly Gln Arg Asp Arg Gly Met Pro Thr Ser Val Gly
  1               5                  10                  15

Gly Glu Gly Gly Phe Thr Ala Asn Pro Val Arg His Arg Trp Arg Gly
             20                  25                  30

Lys Ala Ala Gln Asn Ile Ala Leu Ala Pro Arg Arg Val Arg Arg Ala
         35                  40                  45

Gly Asn Ala Pro Ile Leu Ala Gly Ser Arg Gln
     50                  55
```

<210> 130

<211> 58
<212> PRT
<213> Homo sapiens

<400> 130
Met Tyr Arg Tyr Arg Arg Phe Ile Ile Pro Tyr Pro His Val Gly Cys
1 5 10 15

Arg Tyr Pro Leu His Phe Asp Thr Arg Cys Cys Ala Ser Ile Met Val
20 25 30

Ile Thr Cys Phe Cys Val Leu Val Leu Asn Asn Tyr Leu Met Leu Phe
35 40 45

Ala Phe Ile Phe Asp Ile Cys Leu Gln Leu
50 55

<210> 131
<211> 57
<212> PRT
<213> Homo sapiens

<400> 131
Met Leu Glu Asn Cys Glu Ile Phe Cys Gly Ala Ala Trp Ala Gln Leu
1 5 10 15

Leu Lys Trp Thr Leu Lys Leu Glu Val Thr Trp Ala Thr Thr Ala Tyr
20 25 30

Arg Arg Ser Asn Glu Thr Arg Asp Asn Val Arg Leu Val Glu Arg Glu
35 40 45

Ala Gly Lys Gln Lys Ala Gly Trp Thr
50 55

<210> 132
<211> 87
<212> PRT
<213> Homo sapiens

<400> 132
Met Tyr Phe Gln Ser Pro Asn Val Leu Thr Pro Pro Gly Phe Leu Thr
1 5 10 15

Trp Tyr Phe Val Tyr Lys Arg Gly His Gln Val Ala Ser Ser Ser Pro
20 25 30

Val Met Leu Ser Arg His Val Arg Gln Leu Val Arg Leu Pro His Tyr
35 40 45

Phe Gln His Tyr Leu Ala His Cys Pro Ser Phe Tyr Ala Pro Val Leu
50 55 60

Leu Ser Phe Leu Phe Thr Leu Phe Tyr Pro Leu Pro Leu Pro Pro Ala
65 70 75 80

Ile Gly Phe Arg Ile Ala Asp
85

<210> 133
<211> 24
<212> PRT
<213> Homo sapiens

<400> 133
Met Val Arg Leu Ile Leu Leu Ile Met Arg Tyr Asn Tyr Thr Ala Asn
1 5 10 15

Val Pro Pro Thr Pro Thr Trp His
20

<210> 134
<211> 78
<212> PRT
<213> Homo sapiens

<400> 134
Met Val Gly Ser Glu Arg Thr Cys Val Gly Arg Arg Arg Arg Arg Arg
1 5 10 15

Asp Asp His Leu Pro Asp Arg Pro Gly Arg Arg Leu Pro Ile Arg Ala
20 25 30

Pro Val Val Leu His His Leu Tyr Glu Ser Pro Gly Cys Asn Glu Gln
35 40 45

Leu Gly Leu Pro Arg Ile Ser Thr His Gln Ile Arg Leu Pro Gly Leu
50 55 60

Lys Arg Asp Ile Arg Arg Cys Gly Leu Arg Arg Arg Gln Arg
65 70 75

<210> 135
<211> 46
<212> PRT
<213> Homo sapiens

<400> 135
Met Gln His Ile Arg Arg Thr Arg Arg Cys Arg Arg Ile Arg Pro Ile
1 5 10 15

Arg Ser Ile Arg Gln Ala Arg Cys Gln Arg Arg Arg Arg Arg Arg Arg
20 25 30

Ser Arg Arg Ser Gln Arg Gln Ala Arg Pro Met Pro Ala Asn
35 40 45

<210> 136
<211> 145
<212> PRT
<213> Homo sapiens

<400> 136
Met Gly Ile Pro Asn Met Ser Arg Val Ala Thr Ala Ser Phe Ser Leu
1 5 10 15

Ser Leu Val Leu Leu Ala Ile Ile Leu Pro Val Ser Ala Thr Thr Ala
20 25 30

Thr Leu Leu Ala Pro Ile Ala Ala Ala Leu Thr Val Val Ile Thr Ile
35 40 45

Ala Thr Leu Ala Ser Ile Thr Leu Val Leu Pro Leu Thr Leu Arg Val
50 55 60

Val Thr Phe Arg Lys Cys Cys Glu Thr Ala Val Val Gln Arg Lys Ile
65 70 75 80

Val Arg Tyr Cys Pro Tyr Thr Arg Thr Ala Tyr Arg Gly Val Pro His
85 90 95

Phe Leu Val Val Pro Ala Ile Ile Thr Gly Ile Leu Pro Leu Leu Leu
100 105 110

Ser Thr Ile Gln Leu Arg Thr Pro Leu Thr Ala Ala Leu Asn Cys Cys
115 120 125

Val Pro Pro Ser Ser Ser Thr Asp Ser Leu Ser Ser Trp Leu Thr Ser

130 135 140

Gly
145

<210> 137
<211> 74
<212> PRT
<213> Homo sapiens

<400> 137
Met Gly Ala Thr Ala Ala Leu Pro Ala Val Met Ala Tyr Pro Leu Gly
1 5 10 15

Gly Lys Thr Phe Asp Gly Pro Arg Ala Gly Thr Gly Pro Leu Met Leu
20 25 30

Tyr Ile Thr Gln Phe Val Ile Ser Pro Ala Ala Ala Ile Leu Leu Thr
35 40 45

Thr Ser Ala Ala Ile Val Ile Thr Ala Leu Phe Ser Ala Ala Ala Phe
50 55 60

Gly Val Val Phe Val Leu Cys Phe Gly Gly
65 70

<210> 138
<211> 50
<212> PRT
<213> Homo sapiens

<400> 138
Met Ser Thr Val Pro Glu Ile Gly Glu Ser Val Thr Gly Gln Glu Cys
1 5 10 15

Gly Ser Arg Lys Ile Leu Leu Val Trp Arg Arg Leu Arg Lys Cys Thr
20 25 30

Thr Thr Glu Cys Leu Pro Gly Ala Lys Val Thr Thr Gly Tyr Tyr Lys
35 40 45

Arg Lys
50

<210> 139

<211> 92
<212> PRT
<213> Homo sapiens

<400> 139
Met Thr Leu Lys Ser Thr Ser Trp Ser Gly Gly Cys Ser Val Leu Gly
1 5 10 15

Ser Leu His Lys Pro Pro Pro Pro Gln Arg Ala Pro Cys Ser Leu Glu
20 25 30

Glu Arg Thr Thr Val Leu Gly Gln Glu Arg Pro Phe Ser Tyr Ser Trp
35 40 45

Thr Met Asp Arg Lys Gln Leu Gly Ala Asp Phe Leu Cys Ala Thr Cys
50 55 60

Gln Arg Leu Leu Ser Ser Ile Ala Arg Ile Gln Arg Pro Asp Ser Ala
65 70 75 80

Leu Val Glu Val Lys Val Phe Phe Pro Ser Pro Phe
85 90

<210> 140
<211> 63
<212> PRT
<213> Homo sapiens

<400> 140
Met Arg Val Ile Met Leu Gln Ser Thr Cys Ile Arg Leu His Asp Leu
1 5 10 15

Arg Lys Val Asp Ser Val Thr Leu Lys Ser Ser Ile Leu Glu Arg Arg
20 25 30

Asn Met Leu Phe Asp Asp Ile Ala Gln Lys Leu Val Glu Ile Ser Leu
35 40 45

Glu Leu Glu Met Ser Arg Ala Ser His Gln Asn Val Leu Lys Asn
50 55 60

<210> 141
<211> 16
<212> PRT
<213> Homo sapiens

<400> 141
Met Phe Pro Phe Val Cys Arg Ser Lys Asn Ser Pro Gln Val Tyr Cys
1 5 10 15

<210> 142
<211> 30
<212> PRT
<213> Homo sapiens

<400> 142
Met Asn Glu Ala Val Ala Lys Trp Ala Gln Pro Gly Arg Leu Pro His
1 5 10 15

Ile Pro Arg Trp Leu Ser Cys Gln Leu Trp Val Ser Arg Thr
20 25 30

Replacement Sheet